

**Listing of Claims**

1. (Currently Amended) A method of ciphering call information transferred between a mobile communication terminal and a network, comprising:

connecting a call between the terminal and the network;

transferring call information between the terminal and network without ciphering the call information;

transmitting a ciphering request ~~for call information~~ from the terminal to the network after the call information has been transferred between the terminal and network without ciphering;

transmitting a ciphering authentication request message from the network to the terminal in response to the ciphering request;

transmitting a ciphering authentication response message from the terminal to the network in response to the ciphering authentication request message; [[and]]

transmitting a ciphering activation completion message from the network to the terminal in accordance with the ciphering authentication response message[[,]]; and

ciphering call information transmitted between the terminal and network after the ciphering activation completion message is received from the network, wherein the ciphering request is transmitted ~~at a predetermined time~~ during transfer of data from the terminal to the network during the call; ~~said predetermined time based on a timing of generation of a key value for ciphering activation.~~

2. (Previously Presented) The method of claim 1, wherein the ciphering authentication request message includes a RAND value and wherein the key value is generated by the terminal based on the RAND value.

3-4 (Canceled)

5. (Original) The method of claim 1, wherein the call information includes a voice information.

6. (Currently Amended) The method of claim 1, wherein the call information includes said data and wherein the ciphering request is transmitted during transfer of data from the terminal to the network during the call.

7. (Withdrawn) A method of ciphering call information transferred between a mobile communication terminal and a network, comprising:

transmitting a ciphering request message from the terminal to the network, the ciphering request message including a specific value;

computing a key value required for a ciphering activation process based on the specific value, said computing being performed by the network;

transmitting a ciphering activation completion message indicating completion of the ciphering activation process; and

ciphering the call information to be transferred between the terminal and network, wherein the ciphering request message is transmitted at a predetermined time during transfer of data from the terminal to the network, said predetermined time based on generation of a key value for ciphering activation.

8. (Withdrawn) The method of claim 7, wherein the specific value includes a RAND value.

9-10 (Canceled)

11. (Withdrawn) The method of claim 7, wherein the call information includes a voice information.

12. (Withdrawn) The method of claim 7, wherein the call information includes said data.

13-52 (Canceled)

53. (Previously Presented) The method of claim 1, wherein the ciphering request is generated and transmitted without including a RAND value for ciphering activation.

Serial No. 10/669,472

Docket No. DPO-0007

Amendment dated April 14, 2008

Reply to Office Action of January 14, 2008

54. (Currently Amended) The method of claim 1, further comprising:

transmitting a ciphering deactivation request message from the terminal to the network during at a time when ciphered data is being transferred between the terminal and network; and

deactivating ciphering in response to the ciphering deactivation request message,  
the ciphering being deactivated during the call.